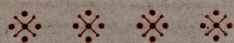


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Forty-third
Annual Report



Mechanics' Institute

SAN FRANCISCO

1898

THE STAR PRESS—JAMES H. BARRY—420 MONTG'Y ST., S. F.

Mechanics' Institute LIBRARY AND READING ROOM

31 POST STREET, SAN FRANCISCO

77,000 VOLUMES.

From three hundred to six hundred volumes added monthly.

Daily list of additions is posted in the circulation department.

New Books of general interest or special merit are added as soon as published, and duplicated in accordance with the demand.

Members' requests for books not already in the Library receive careful consideration.

The Reference Department is especially strong in mechanical and engineering works, including complete sets of the principal American and Foreign scientific periodicals. It contains, also, the United States and the English Patent Office Reports, complete.

The Reading Room list of periodicals embraces the title of 400 newspapers, magazines, reviews and journals.

Classes in Mechanical and Free-hand Drawing, each two evenings a week.

The Mechanics' Institute Bulletin, containing lists of new books received, book reviews, etc., published every month.

A Music Department has recently been added to the Library, consisting of a collection of vocal and instrumental sheet music, scores of standard operas, etc., which are circulated as books.

HOURS OF THE LIBRARY.

Library	9 a. m. to 10 p. m.
" (Sundays)	10 a. m. to 5 p. m.
Reading and Chess Rooms	8 a. m. to 10 p. m.
" " " " (Sundays)	9 a. m. to 10 p. m.

TERMS OF MEMBERSHIP.

Entrance Fee	\$ 1 00
Quarterly Dues	1 50
Life Membership	50 00

Rooms Open for Inspection Day and Evening.

FORTY-THIRD ANNUAL REPORT OF THE MECHANICS' INSTITUTE

FOR THE

Year Ending February 28, 1898

SAN FRANCISCO, CAL.
1898.

PRESIDENTS OF THE INSTITUTE

FROM ITS ORGANIZATION.

1855 —BENJAMIN HEYWOOD.	1865 —CHARLES M. PLUM.
1855 —JOHN SIME.	1866 —H. J. BOOTH.
1856 —R. MATHESON.	1867 —GEORGE K. GLUYAS.
1857-58—JOHN SIME.	1868-77—A. S. HALLIDIE.
1859 —GEORGE COFRAN.	1878-79—IRVING M. SCOTT.
1860 —THOMAS TENNENT.	1880-88—P. B. CORNWALL.
1861 —JOHN P. BUCKLEY.	1889-91—DAVID KERR.
1862 —B. H. FREEMAN.	1892 —IRWIN C. STUMP.
1863-64—JOSEPH BRITTON.	1893-95—A. S. HALLIDIE.
1896-98—ERNST A. DENICKE.	

OFFICERS.

BOARD OF TRUSTEES—1897-98.

ERNST A. DENICKE	President
RODNEY KENDRICK	Vice-President
E. P. HEALD	Recording Secretary
P. J. HEALY	Corresponding Secretary
FERDINAND FORMHALS,	JOSEPH LEGGETT.
OSCAR LEWIS.	JOHN McLAREN.
ROBERT W. NEAL.	CHARLES M. PLUM, JR.
GEORGE R. PRESSON.	HENRY ROOT.
GEORGE H. WALLIS.	HORACE WILSON.
FIRST NATIONAL BANK	Treasurer
JOSEPH M. CUMMING, Secretary.	

STANDING COMMITTEES.

Finance	PRESSON, ROOT, WILSON.
Library, Rooms and Building	ROOT, WALLIS, PLUM.
Books and Donations	LEGGETT, HEALY, FORMHALS.
Lectures and Classes	McLAREN, LEGGETT, ROOT.
Printing and Advertising	NEAL, PRESSON, WILSON.
Pavilion	PLUM, KENDRICK, McLAREN.
Employees	FORMHALS, HEALD, NEAL.
Machinery	WALLIS, LEWIS, FORMHALS.
Art	HEALD, McLAREN, LEGGETT.
Exhibits	HEALY, LEWIS, HEALD.
Tickets and Admissions	WILSON, KENDRICK, NEAL.
Music and Decorations	KENDRICK, PRESSON, PLUM.
Management	LEWIS, WALLIS, HEALY.

THE PRESIDENT is ex-officio a member of all Committees.

LIBRARY.

31 POST STREET.

A. M. JELLISON Librarian.
F. B. GRAVES Assistant Librarian.

ASSISTANTS.

J. H. WOOD. R. D. COLQUHOUN.
W. R. WILLIAMS. MRS. M. E. SOUTHWORTH.
W. H. WOOLCOCK. HERBERT K. STURGES.

GEORGE F. KEIL (evening service).

JANITORS.

F. E. HARRIS. A. CITRON.

PRESIDENT'S REPORT.

To the Members of the Mechanics' Institute—

I have the honor to present to you the following summary of the history of this Institute for the year ending this month—March, 1898—and such suggestions as the year's events seem to me to call for.

At the same time, I have done my best to avoid delving in the details and minutia of our management, knowing that they are clearly and fully set forth in the reports of the Secretary and Librarian.

The past year has been an eventful one for the Trustees if not for the members, as since the last annual meeting two Fairs have been held at the Pavilion—the regular Industrial Exposition, which closed last September, and the Golden Jubilee Mining Fair, now in progress (or just brought to a successful conclusion). The latter was given under the auspices of the Miners' Association and by the advice and with the active assistance of your Board of Trustees, and I undertake to say that never since the existence of this Institute has a Board of Trustees done so much labor for the benefit of the public and this Institute, as has the present outgoing Board.

THE FAIR OF 1897.

It is with very much pleasure that I report to you that the Fair of 1897 was a social and financial success, and that by it some \$5,000 was turned into our Treasury. That this was so in spite of the dark forebodings and misgivings of many of us, must be attributed to the extraordinary labors of the Board, the members of which, in order to avert financial loss, were forced headlong into the show business,

and so catered to the public taste that a good balance was entered upon the right side of the ledger. It may be sad, but it is a fact that this has become necessary to enable us to compete with the many other attractive amusements offered the public in this city; while our Trustees did not for a moment lose sight of the true intention and purpose of our Fairs, they were compelled to adopt extraordinary means to avoid a deficit.

Time was, and not so long ago either, when the Mechanics' Fair was looked forward to as the one event of the year; all the world and his wife attended it to see and be seen; it was what the Jenkins of the press terms "a great social function" for which everybody was waiting and to which everybody went. All this has changed. The City has grown rapidly in every way, and amusements, both good and cheap, have multiplied greatly. So the Exposition of our manufactures and productions, even with the added charm of a promenade concert, has ceased to be the drawing card it was a few years ago. Means, foreign to the original intention of the Institute, had, therefore, to be found to attract sufficient attendance to insure financial success, and measures resorted to which not infrequently smacked of the fakir. This sort of thing is very distasteful to our Trustees, but whether they like it or not, it has become necessary in order to achieve financial success. This is a sacrifice of self-respect, which, in my opinion, no member of this Institute should be called upon to make, and to avoid it in the future, I recommend that our Fairs be hereafter held tri-annually—the next one in the year 1900. It appears to me that if this was done sufficient change and growth will have taken place in manufactures, machinery, etc., to render an exhibition of them really attractive. Also a sufficient time will elapse between such Fairs as to add an air of novelty, which, to say the least of it, is at present sadly wanting. In order to enable the Pavilion to earn as much as was formerly obtained from the annual Fair, I

would suggest that it be leased permanently to some party or parties for a sum total of the usual annual rents together with an additional amount, say a minimum of the profits representing the average of the last three years. Such a rental could, I think, be obtained if some necessary changes were made in the Pavilion, fitting it for concerts, lectures and similar entertainments. I understand that such a plan has been adopted in like buildings in Boston and New York.

THE MINING FAIR.

Since the admission of California into the Union no institution has done more for the education of the public than this Institute, and the Golden Jubilee Mining Fair shows that it is still laboring assiduously for the welfare and development of the State. While placer mining is probably a thing of the past, and California can no more claim to be a "poor man's diggings," the more we learn of our mineral resources convinces us that we in reality know but little of the vast wealth which lies buried in the mountainous portion of our State. While thousands are madly rushing to the Arctic zone and rashly braving the dangers and privations of Alaska and the Northwest Territory, good work has been done by the Mining Fair in calling attention to the fields for enterprise and capital lying as it were at our doors. By aiding and directing this Fair and all Expositions of a similar nature the Institute is only doing its duty—the purpose for which it was created in 1854, and what it has been doing ever since. As a quasi-public institution it is bound to foster progress of all sorts, and more practically such a vital industry as mining. Having done this duty and done it well, thanks to the acumen and energy displayed by our Trustees and Secretary, it is pleasant to know that a financial gain has accrued to the Institution from the Mining Fair. Had we gained nothing but the sat-

isfaction which always follows the conscientious discharge of duty, we should have been satisfied, but I am glad to be able to report that, although no rent was paid, we are richer in many ways—have acquired 700 Welsbach lamps and decorations which, for a term of one or two years, will be of value to the Institute. The Welsbach lamps are worth from \$1.50 to \$2 each, not to speak of the financial profit resulting from the reduction in the cost of lighting the Pavilion by gas through the substitution of the Welsbach for the common burner before in use. This improvement alone will, not mentioning the other benefits received, in a couple of years fully reimburse the Institute for any loss of rent during the time the building was occupied by the Mining Fair. In proof of this last assertion I point to the great saving made in the Post-street building by the introduction of these improved burners. Among other benefits accruing are the salaries of our Secretary, Janitor and Typewriter at \$285 a month for two months, making in all a sum total of about \$1,500, which is one-half of the amount of rent promised had the Miners' Fair shown a profit over and above expenses. We gain further the draperies already mentioned, permanent improvements to the elevator and several minor improvements. Thus it will be seen that in addition to the great service rendered by the Institute to the State by helping this important work, the Miners' Fair has resulted in a substantial financial gain. Both Fairs may therefore be said to have produced satisfactory results, and the names of the Trustees for the past year will be remembered as the members of the only Board of the Mechanics' Institute which conducted two fairs in one year to a successful issue.

NECESSITY OF A SUPERINTENDENT.

In my last year's report I strongly recommended the appointment of a General Superintendent, and laid before you

reports upon the subject received from various quarters. I suggested that the offices of Secretary and General Superintendent be combined. I pointed out that at present our Secretary is paid a salary of \$150 per month; that he lost much valuable time in keeping the books of the Institute, which work could be satisfactorily done under his supervision for \$60 per month; that for the annual Fair we employ a manager, whose services could be dispensed with if the Secretary were also made a General Superintendent, and if he were relieved by the appointment of a subordinate of the clerical work which now occupies much of his time; that I believed that the Institute would be greatly benefited by the personal superintendence of its business by one whom both duty and self-interest combined to impress with the necessity of the strictest economy and the exercise of good business judgment. Although the members were pleased to vote to adopt this suggestion no action has yet been taken in the premises, and as I am more than ever convinced of the necessity of such an appointment I desire once again to call your attention to the matter.

What I have already stated in this report regarding the great work done by the Trustees in the two Fairs referred to most certainly protects me from any charge of undervaluing their services, but the experience of the past year has plainly demonstrated to me that the present method of management by means of sub-committees is a cumbersome and unsatisfactory one, often wasting much valuable labor and time in bringing about a result which could have been done easily and quickly by the centralization of power in one executive officer. It will be seen that in a work like the pre-arrangement and running of a Mechanics' Fair, which calls for such a multiplicity of vocations, it is necessary, under the present system, to name a large number of committees and call for numerous meetings during the day-time to arrange the programme for the evening's entertainments. Let me here draw your attention to the vast amount

of unnecessary work hereby thrust upon your Trustees, and the fact that these sub-committees are often forced by the urgency of the work in hand to arrogate to themselves executive as well as legislative power. Is it a wonder that, under such circumstances, these sub-committees should at times clash; that friction should follow; that the desired result should thus become more difficult to obtain, and the entire work of the Board be thereby more or less interfered with?

While all these difficulties would be removed by the appointment of a General Superintendent, the utility of the various committees would not in any way be interfered with. As I said last year, the committees would then, as now, be the originators of all movements for the benefit of the Institute, and would have more time to take such matters under consideration, because they would then have a Secretary and General Superintendent combined, with his whole time at their disposal to carry their decision into effect, an executive officer responsible for the well-doing of the work created by them.

MR. LEGGETT'S RESIGNATION.

The resignation of Mr. Leggett as a member of the Board of Trustees is very much to be regretted, as by it the Institute lost the services of a very competent and active officer. Mr. Leggett, in his capacity of Chairman of the Committee on Books and Donations, which position he held for several years, rendered us very valuable services, and it will be difficult to replace him by any one so particularly fitted for that position. Fortunately his place in the Board was filled by a gentleman, Mr. S. J. Hendy, who, in former years, had gained much experience as a Trustee, and who was of much service to us at the last Fair.

MEMBERSHIP.

After eliminating more than the usual number of names

from the membership list I am glad to be able to inform you that we are still in a position to show an increase of receipts. This is a very fortunate circumstance, as we now hope to keep our Library self-sustaining. The reduction of price of season tickets to the Fair from \$2.50 to \$2 was a wise move, and resulted in a considerable gain in membership, as, on this account, more members joined the Institute than last year, many of whom remained with us.

THE LIBRARY.

Under this head I find a fit opportunity to pay a tribute of thanks to Mr. C. W. M. Smith for the great service he rendered the Institute in taking the steps he did to obtain for us a full set of English patents. While little has been said upon the subject, Mr. Smith must not think us ungrateful or that his valuable work is forgotten. On the contrary, every day proves more and more the inestimable value of these books, not only to the members but to the general public, to whom all patent literature is open. Mr. Smith must understand, therefore, that his labors in this direction are very much appreciated, even if somewhat tardily acknowledged.

The effort to obtain this valuable addition to our Library was a long task, covering, I am informed, five years or more and including many disappointments and rebuffs, and therefore a slight sketch thereof may prove interesting. In the winter of 1871-'72 Mr. Smith, while in London, had an interview with Mr. Bennet Woodcroft, English Commissioner of Patents, in which he discussed the possibility of obtaining a full set of British Patents for our Institute. This was supplemented by a visit to the American Ambassador, General Schenck, and much correspondence with Senator Booth and others. The good work put in motion by Mr. Smith resulted in the Secretary of State, Mr. Hamilton Fish, directing General Schenck to ask, unofficially, for the reports, and his request was granted.

Thus it was only through the persistent efforts of staunch friends of the Institute that the struggle was rewarded with success. The Mechanics' Institute, therefore, feels most grateful to Mr. Smith for the aid he, in common with its many other friends, gave so freely in this service.

There has been an accession to the Library during the past year of 3,653 books as against 3,431 for the preceding year. The total number of volumes now on the shelves is 76,595. I regret to say that there is a loss unaccounted for of 376 volumes. Of the late accessions 206 books and 787 pamphlets and unbound volumes were presented to the Library, besides many periodicals, maps and photographs.

Lovers of music will be glad to hear that the nucleus of a Musical Library has been formed. I feel sure that this will be hailed as a welcome innovation by many of our members.

THE LICK FUND.

The statement as to this fund for the past year is as follows:

Balance March 1st, 1897.....	\$3,677.25
Interest credited February 28th, 1898....	238.90
	<hr/>
	\$3,916.15
Purchase of books charged to fund during year ending March 1st, 1898.....	427.25
	<hr/>
Balance to credit of fund.....	\$3,488.90

THE LIBRARY BUILDING.

Last year I recommended that a light stairway be constructed to run from the rear part of the Library to the Reference-room above, and that the door to the Reference-room opening upon the outer staircase be kept closed, except when that room is used for meetings, thus obliging all visitors to pass through the Library. This has been done

with most advantageous results, the stairway costing \$353.10. Galleries have been built in the Reference-room by day labor under the supervision of Mr. Root at a cost of \$566.25. By this means additional shelf-room has been obtained for 6,000 volumes. Our thanks are due to Mr. Root for all the trouble he has taken in this matter. The Mechanics' Institute Library Bulletin, the issuing of which was let by contract at no cost to the Institute, after appearing for nine months, has ceased publication because of financial loss to the publishers.

The hopes that I expressed last year that a handsome modern building ten or twelve stories high would soon take the place of our present Library building on Post street are still in abeyance, although the necessity for the new structure increases with each passing year. While entirely inadequate to our wants, the Board of Trustees has done and is doing the best it can with the means at its disposal, every inch of space in the Library building is turned to good account, and the recent alterations have added much to the comfort and convenience of our members. Let us hope for the best, and that when the day of San Francisco's greatness arrives, when the Nicaraguan Canal is built and our trade with Asia and Australasia better developed, we shall be able to sell our Folsom-street property, get out of debt and build a home for our Library worthy of the City and the Mechanics' Institute.

Consent has been given for the paving of Post street between Montgomery and Kearny streets with bituminous rock.

THE FOLSOM STREET LOT.

While there is said to be a strengthening of values for down town realty, any rise there may be in prices has not yet reached so far as our property on Folsom street. I understand that the lease can be renewed for two or three years at an additional rental. It will bring \$100.00 per

month up to December 31st, 1898, when the old lease expires, after which it can be leased for \$150.00. This I should certainly advise to be done, as it would be suicidal to sell at present prices. It would appear to me that there is a future for this property, and that it will one day reimburse the Institute for all the expense and trouble it has caused. It is obvious that the Southern Pacific has succeeded in diverting most of the transcontinental traffic from the Northern to the Southern road, and as this will soon reach the City, via San Jose instead of Oakland, it stands to reason that the level land adjacent to it, as ours is, is bound before long to become very valuable. It is, therefore, only a matter of time when this property will cease to be the bete noir of the Institute. The proposed paving of Folsom street between Fifteenth and Sixteenth streets has been put off for six months in consequence of a petition of property holders to that effect.

THE PAVILION.

The Larkin street front of the Pavilion having been painted, I recommend that the two sides and the Polk street end be also painted. This is necessary for the preservation of the wood as well as for appearance sake. The Spring Valley Water Company has brought its Market street main into the building; this is connected with 6 stand pipes which have been erected at a cost of \$591.43, and hose on reels attached to them. Therefore, the precautions against fire were never more perfect than at present. Another improvement is an entirely new stairway 20 feet wide from the center of the North Gallery. The stairways at the Southwest and Northwest corners have been straightened and widened. This necessary work on staircases cost \$227.50. A new exit has been made on the Hayes street side. This, in addition to former exits, renders the Pavilion the most easy place of resort in this City to empty in case of panic.

For the comfort of our patrons, as proposed in last year's report, new seats have been provided at a cost of \$1,493.50, which will accommodate 1540 persons.

CLASSES AND LECTURES.

The classes existing at the close of last year have been maintained, and have been attended by 65 pupils. A subscription list was opened for a class in wood carving, but as sufficient signatures were not obtained, it is not in operation. Free lectures to the number of fifteen have been delivered to large audiences during the season.

REDUCTION OF INDEBTEDNESS.

A further reduction of our indebtedness to the Regents of the State University has been made by the payment of the \$5,000.00 realized from the Industrial Fair, leaving a balance of \$100,000.00 owing.

LEGAL MATTERS.

The suit of McQueen vs. the Institute is now up for trial. Suit was commenced some years ago by McQueen for personal injuries caused by falling lumber while he was working in the Pavilion, and he obtained judgment for \$5,000.00 damages. A new trial was granted by the Superior Court and plaintiff appealed therefrom to the Supreme Court. His appeal was denied and the case sent back for a new trial.

The Supreme Court has again decided in favor of the defendant in the suit of the Institute against J. K. Firth.

The suit of J. L. Hicks against the Institute has been decided in our favor.

ELECTIONS.

I must again repeat my regret that so little interest is taken among the members generally in our annual election. The only consolation is the thought that this lack of active

participation indicates satisfaction in the management. I am glad to note that the last election was marked by the absence of any show of passion and ill feeling, all too prevalent on previous similar occasions.

THE SECRETARY'S LABORS.

I cannot conclude this report without calling your attention to the arduous labors performed by our Secretary during the Mining Fair. Not only has he done his duty as Secretary of this Institute, but has assisted managing this Fair as well, has worked early and late in an untiring and conscientious manner to prevent loss to the Institute and bring the Fair to a successful conclusion.

It now only remains for me to give my heartfelt thanks to the officers and members of this Institute for the assistance they have rendered me in the execution of my Presidential duties. I thank them also for the courtesy and kindness they have always shown me, and the charity with which they have condoned my many short-comings. I shall never fail to remember with pleasure my intercourse with you all, or to appreciate the kind consideration you have shown to my efforts on your behalf.

ERNST A. DENICKE.

San Francisco, March 5th, 1898.

SECRETARY'S REPORT.

San Francisco, March 15, 1898.

To the Members of the Mechanics' Institute—

Ladies and Gentlemen: I present herewith a financial statement for the year ending February 28th, 1898.

RECEIPTS.

Library—

Entrance fees.....	\$1,074 00
Quarterly dues.....	22,514 50
Life membership.....	250 00
Books paid for, fines, extra books.	1,496 00
Rent, Post street.....	3,900 00
Fuel, overcharge.....	22 70
Printing, overcharge.....	3 75
Lighting, sale of fixtures.....	4 50
Periodicals, rebate.....	5 45
Interest, rebate.....	2 50
Sundry receipts.....	37 50
	<hr/> \$29,310 90

Pavilion—

Rent	5,956 40
Rent, Hayes street property.....	4,778 40
Gas repaid by lessees.....	1,194 72
Damages paid by lessees.....	162 50
Salaries paid by Golden Jubilee	
Mining Fair.....	570 00
Sundry receipts.....	130 80
	<hr/> \$12,792 82

Classes—

Fees paid by pupils.....	178 00	
Drawing paper sold.....	4 00	
		<hr/>
		182 00

Lectures—

Honorarium returned.....	10 00
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Folsom Street Property—

Rent	700 00
------------	--------

Bills Payable—

Money borrowed.....	2,500 00
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Thirtieth Industrial Exposition—

Receipts	29,370 82	
		<hr/>
Total receipts.....	\$74,866 54	
Cash on hand March 1st, 1897...	1,741 45	
		<hr/>
		\$76,607 99

EXPENDITURES.

Library—

Advertising	2 50
Binding	1,170 89
Books	3,213 97
Books charged to Lick Fund.....	427 25
Expense	1,025 79
Fuel	173 74
Furniture	154 50
Interest	200 00
Insurance	24 00
Lighting	1,023 91

Printing and Stationery	1,127 05
Periodicals	834 76
Repairs	1,013 20
Salaries	8,952 05
Taxes	1,887 23
Water	223 50
	<hr/>
	\$21,454 34

Pavilion Block—

Repairs and improvements.....	3,126 66
Repairs to Hayes street houses..	171 50
Insurance	696 50
Gas	1,490 40
Salaries	3,365 00
Water	95 25
Water, Hayes street houses.....	77 55
Taxes	3,760 01
General Labor.....	117 47
General expenses.....	236 35
	<hr/>
	13,136 69

Folsom Street Property—

Taxes	778 43
Interest	6,000 00
General expenses.....	16 00
	<hr/>
	6,794 43

Classes—

Salaries	577 50
Printing	2 75
Fees returned.....	3 00
	<hr/>
	583 25

Lectures—

Printing	37 50
Illustrating	126 55
Moving chairs	45 00
Paid to lecturers.....	140 00
	<hr/>
	349 05

Bills Payable—

Temporary loans repaid.....	2,500 00
Paid on account of mortgage....	5,000 00
	<hr/>
	7,500 00

Thirtieth Industrial Exposition—

Expenditure	24,459 09
Less amount charged to Pavilion account	111 00
	<hr/>
	24,348 09
Total expenditures.....	\$74,165 85
Cash on hand March 1st, 1898...	2,442 14
	<hr/>
	\$76,607 99

SUMMARY.

Of Receipts and Expenditures for the Year Ending February 28th, 1898.

Receipts. Expenditures.

Library—

Receipts	\$29,310 90
Expenditures	21,454 34
	<hr/>
Excess of receipts..	7,856 56

Pavilion—

Receipts	12,792 82
Expenditures	13,136 69
	<hr/>
Excess of expendi- tures	343 87

Classes—

Receipts	182 00
Expenditures	583 25
	<hr/>
Excess of expendi- tures	401 25

Lectures—

Receipts	10 00
Expenditures	349 05
	<hr/>
Excess of expendi- tures	339 05

Folsom Street Lot—

Receipts	700 00
Expenditures	6,794 43
	<hr/>
Excess of expendi- tures	6,094 43

Thirtieth Industrial Exposition—

Receipts	29,370 82
Expenditures	24,348 09
	<hr/>
Excess of receipts..	5,022 73

Bills Payable—

Receipts	2,500 00
Expenditures	7,500 00
	<hr/>
Excess of expendi- tures	5,000 00
	<hr/>
	\$12,879 29 \$12,178 60

Excess of receipts
over expenditures 700 69
\$12,879 29

Cash on hand March
1st, 1897..... \$1,741 45

Excess of receipts
over expenditures. 700 69

Cash on hand March
1st, 1898..... \$2,442 14

Respectfully submitted,

JOSEPH M. CUMMING,
Secretary.

REPORT OF AUDITOR.

San Francisco, March 11th, 1898.

Finance Committee, Mechanics' Institute—

Gentlemen: I have carefully examined the Books and Accounts of the Mechanics' Institute for year ending February 28th, 1898. I have compared all entries in the Journal with the vouchers, and checked the Cash Book and Journal with the Ledger. All vouchers are properly approved, and are now on file in the Secretary's office. I have also examined the Librarian's accounts, and find them correct.

The balance in Bank on February 28th, agrees with the amount as shown by the Cash Book.

I enclose Trial Balance of the Ledger, February 28th, 1898.

Respectfully submitted,

P. VAN PELT,

Auditor.

LIBRARIAN'S ANNUAL REPORT, 1897-98.

To the President and Board of Trustees—

Gentlemen: I have the honor to present the forty-third annual report of the work and business of the Library for the year ending February 28, 1898.

MEMBERSHIP.

Number reported February 27, 1897.....	4,493
New members, Subscription.....	1,074
New members, Life.....	5
	1,079
	5,572
Withdrawn	661
Dropped from books.....	526
	1,187
Membership February 28, 1898.....	4,385

The membership is divided as follows: Honorary members, 11; Life members, 203; Subscription members, 4,171.

Two life members having died during the year: Christian Kirketerp and Cornelius O'Connor.

BOOKS.

The accessions for the year have been 3,653 volumes, classified as below:

Bibliography	30	Geography and Travel.	143
Philosophy	43	General Periodicals ...	201
Sociology	298	Theology	33
Science	158	Philology	10

Fine Arts	83	Useful Arts.....	411
Fiction and Juvenile...1814		Poetry and Drama.....	62
Biography	129	Literature, Essays, Let-	
History	123	ters	115

These were assigned to:

Reference department.....	850
Circulation	2,803

They were acquired by:

Purchase	2,623
Gift	267
Binding	763

In addition, 198 pamphlets and unbound volumes were purchased, and 787 presented, making the total accessions, 4,638 volumes.

Among the more important books added during the year were:

Armstrong—Electric Movement in Air and Water.

Audobon and his Journals.

Bodge—Soldiers in King Philip's War.

Brittan and Brown—An Illustrated Flora of the Northern United States.

Cattaneo—Architecture in Italy from the Sixth to Eleventh Century.

Dawson—Electric Railways and Tramways.

Edwards—Butterflies of North America.

Geikie—Ancient Volcanoes of Great Britain. 2 vols.

Heckerthern—Secret Societies of all Ages and Countries. 2 vols.

The Jesuit Relations and Allied Documents. Ed. by R. G. Thwaites.

Kirkman—Science of Railways. 12 vols.

Muller—Contributions to the Science of Mythology. 2 vols.

Musprat—Theoretische, Praktische, und Analytische Chemie. 8 vols.

Muther—History of Modern Painting. 3 vols.

Nehrling—North American Birds.
 North—Voxometric Revelation.
 One Hundred Years of American Commerce. 2 vols.
 Records of New Amsterdam. 7 vols.
 Retzel—History of Mankind. Vols. 1, 2.
 Roux—Herculaneum et Pompeii. 8 vols.
 Savage—A Genealogical Dictionary of the First Settlers of
 New England. 4 vols.
 Vasari—Lives of the Painters. (New edition.) 4 vols.
 Wallis—American Architecture, Decoration and Furniture
 of the Eighteenth Century.

BOOKS AND ACCESSIONS.

No. of volumes reported Feb. 27, 1897...	73,645
Added by purchase.....	2,623
Added by gift.....	267
Added by binding.....	763
	<hr/> 3,653
Lost and paid for.....	81
Lost by dropped members.....	42
Lost by condensing volumes in re-binding	6
Worn out and disposed of.....	198
Missing, unaccounted for.....	376
	<hr/> 703
Net increase.....	2,950 2,950
	<hr/>
Total as per count Feb. 28, 1898.....	76,595

The number of volumes in the Library, with location and classification, may be found in appendix 2.

There are also in the Library, not including the above count, 5,063 pamphlets and 1,198 volumes of unbound periodicals.

BINDING.

New books, periodicals and pamphlets bound..	763
Old books rebound.....	1,971 2,734
Repaired in the Library.....	<hr/> 6,914

These repairs include patching and fastening loose leaves, replacing lost pages, re-sewing, re-siding, lettering backs, and in some cases the book has been completely bound. Covers for the current magazines are made in the Library at a trifling cost, the material used being a brown duck. 110 of these covers have been made during the year.

PERIODICALS.

There are 558 titles on our subscription list, selected from the representative newspapers and periodicals of the world. 451 American and 101 Foreign publications are represented. Of this number 231 are presented.

This does not include the following magazines, taken for circulation as books. The popularity of this department is shown by the issue during the year—7,511, this number being the largest of any class except fiction.

Arena	3	McClure's	2
Atlantic	2	Munsey's	2
Cassier's Magazine	1	Nineteenth Century	1
Century	5	North American Review ..	2
Cosmopolitan	3	Outing	1
Current Literature	1	Overland	2
Eclectic	1	Pall Mall Gazette	1
Engineering Magazine	1	Popular Science Monthly ..	2
Forum	2	Review of Reviews	2
Harper's	6	St. Nicholas	2
Harper's Round Table	2	Scribner's	6
Lippincott's	2		

The expenditures of this department were:

For books—General fund.....	\$3,213.97
Lick fund.....	427.25
For periodicals.....	829.31
For binding.....	1,170.89

Total\$5,641.42

The expenditure for our periodicals does not include the subscription lists for the present year.

DONATIONS.

The most important gift of the year was the "Jeypore Portfolios of Architectural Details," published under the patronage of his Highness the Maharajah of Jeypore, and intended only for private distribution among institutions of learning. This superb work forms a most valuable addition to the Reference department. Six volumes have been received, and there will be several more to complete the set.

Other gifts to the Library were 267 volumes, 787 unbound volumes and pamphlets, 237 periodicals, 26 maps and 6 photographs. A list of the donors will be found in appendixes 3 and 4.

CIRCULATION.

The Library was open 305 days during the year and 186,189 volumes were issued for home use, a daily average of 610. A table of classes follows:

General Periodicals..	7,511	Philosophy	1,863
Theology	749	Sociology	1,405
Philology	337	Science	1,641
Useful Arts	3,118	Fine Arts	3,363
Poetry and Drama ..	3,205	Literature, Essays,	
Fiction and Juvenile.	147,282	Letters	2,809
Geography and Trav.	3,286	Miscellany	948
el	3,286	Biography	4,280
History	4,392		

CATALOGUING.

Besides the accessions, which are promptly catalogued as received, a large number of miscellaneous books have been catalogued during the year.

It may be well to explain that the system in use is the "Dictionary Catalogue," which includes every entry, author, title, subject or cross reference, in one alphabet. This means at least three cards for each title, except fiction, and frequently many more. In our case, on account of the arrangement of the rooms, this work is doubled, as a duplicate list must be maintained for use on the Library floor in addition to the general catalogue in the Delivery-room.

The entire labor of cataloguing falls on the regular staff, and while the work is segregated as carefully as may be, the rule that the service of members at the desk takes precedence of any work is rigidly enforced. In consequence the interruptions are many and trying, and it is only by the utmost patience, zeal and perseverance of the assistants having the work in hand that so much is accomplished.

BULLETIN.

About one year ago plans were perfected for the publication of a Monthly Bulletin, to be sent by mail to each member of the Institute. The first number was issued in March, 1897, and it provided a method of placing before the members in a convenient form the list of accessions to the Library, reference lists on topics of particular interest and any Institute matters of importance.

The Bulletin was much appreciated by the members, and its termination in December a matter of regret. Such a publication is of especial value to our Library where the catalogue is still so incomplete, and it is to be hoped that it may be resumed in the near future under conditions that will insure a permanent existence.

REFERENCE LISTS.

Among the reading and reference lists prepared during the year have been the following subjects:

Proportional Representation.
Municipal Government.
Alaska and the Yukon Country.
Halloween.
Thanksgiving Day.
California—Discovery of Gold. Early Mining.
Money and Finance.
Olympic Games.
French and Indian Wars.
Venezuela and the Monroe Doctrine.
Arbitration and Strikes.
Corea.
Armenian Question.
Giuseppe Verdi.
Good Roads.
India and the Mutiny.
Numismatics.
Bound periodicals.
List of French and German books (recent additions).

LIBRARY EXHIBIT.

For the first time in its history, the Library was represented by an exhibit at the Annual Exposition held by the Mechanics' Institute. The southwest corner of the Art Gallery was assigned for the purpose, and books selected from the different departments of the Library, with the purpose of giving the visitor some idea of the range and value of our collection, were arranged in cases. These, with a display of maps and illustrated books, made a showing that was of sufficient interest to demonstrate the value of such an exhibit and warrant a repetition at future Expositions.

As a special attraction, a pamphlet containing half-tone views of the different rooms of the Library building was prepared and distributed at the booth.

SUNDAY.

The Library is open on Sunday for reading and reference use only, from 10 a. m. to 5 p. m. The average attendance the past year was 44. The Periodical Room, on the third floor, is open all day.

CLASSES.

Evening classes in mechanical drawing and freehand drawing are still continued in the Library building two evenings each week, the classes being open to members and the children of members. The term now in session closes June 30th.

Two successful exhibitions of work by the freehand drawing class have been given during the year, the work shown being very creditable.

MUSIC.

It is proposed to add a musical section to the Library, circulating sheet music, instrumental and vocal and opera scores, on the same basis as books. The experiment will be tried on a small scale at first, but it is hoped that its success will warrant an expansion to include most of the standard music. The circulating of music, while experimental in this Library, is in successful operation in many of the larger libraries in the United States.

LECTURES.

The committee having the matter in charge provided a series of lectures for 1897-98 which proved of great interest

and were uniformly well attended. The complete list is given:

March 13, 1897, "My Reminiscences," Mr. John Bonner.

March 20th, "The Moon" (illustrated), Prof. A. L. Colton, Lick Observatory.

March 27th, "The Postal Service" (illustrated), Mr. James W. Erwin, United States Post Office Inspector.

October 6th, "The Physical Features and Resources of Alaska" (illustrated), Prof. George Davidson.

October 23rd, "Conflict and Socialism," Prof. Bernard Moses, University of California.

October 30th, "Education and Democracy," Prof. Bernard Moses, University of California.

November 6th, "Making Great Cities," Mr. Ernest McCullough, C. E.

November 13th, "The Transmutation of Metals," Prof. Edmond O'Neill, University of California.

November 20th, "Social and Individual Ideals in Education," Prof. Elmer E. Brown, Ph. D., University of California.

November 27th, "Training for American Citizenship," Prof. Edward Howard Griggs, A. M., Stanford University.

December 4th, "The South Sea Islands" (illustrated), Rev. James M. Alexander.

December 18th, "New Methods," Mr. Irving M. Scott.

January 18th, 1898, "A Home Rule Charter," Dr. J. H. Stallard, M. B.

January 22nd, "The Mining Industry" (illustrated), Mr. Edward H. Benjamin, E. M.

February 8th "Roads: Ancient and Modern, at Home and Abroad" (illustrated), Mr. Marsden Manson, C. E.

[This lecture was given under the auspices of the Farmers' Institute.]

RECEIPTS.

New members—Subscription.....	\$1,074.00
Life	250.00
Quarterly dues	22,514.50
Books lost and paid for (81).....	83.20
Fines collected (4,665).....	718.10
Extra books (6,947).....	694.70
Evening classes	178.00
Sundry receipts	19.70

Total receipts at Library.....\$25,532.20

EXPENDITURES.

For books—General fund	\$3,213.97
Lick fund	427.25
Periodicals	829.31
Binding	1,170.89
Salaries	8,952.05
Advertising	2.50
Fuel	151.04
Lights	1,019.41
Water	223.50
Interest	197.50
Insurance	24.00
Taxes	1,887.23
Expenses	503.80
Printing	613.79

Total expenditures.....\$19,216.24

A table of statistics will be found in Appendix 1.

It is interesting to note that while there has been a decrease in the number of members from last year (108) there is an increase of \$676.50 in the receipts at the Library, of which \$526.50 is in quarterly dues account. This shows the

clean condition of the membership roll caused by the prompt dropping of delinquent subscribers from the list.

There have been many changes in the Library building during the year, the most important being the semicircular stairway placed in the rear of the delivery room and connecting it with the library and reference rooms on the second floor. This handsome stairway is a marked improvement, changing what was practically two libraries into one by making it possible to close the front entrance to the rooms on the second floor, and providing access to these departments through the delivery room.

At the same time a light gallery, with a shelf capacity of six thousand volumes, was built around the library room on the second floor, providing an increase of shelf room that was much needed.

The gallery in the delivery room having shown signs of weakness, was strengthened with iron suspension rods.

The collection of framed photographs of antique sculpture, presented by Mr. John S. Hittell, has been placed in the main room.

In response to a general request from the members, a telephone for their use was placed in the rear of the entrance hall. From the harvest of nickels gathered by the company, it would seem to be much appreciated.

With the alterations just made the utmost available capacity of this building has been reached; yet we are already crowded for space, in some departments most uncomfortably, and the need for a new home for the Library becomes more pressing each year.

Respectfully submitted,

A. M. JELLISON, Librarian.

APPENDIX I—SUMMARY OF STATISTICS—1881-1898.

YEAR ENDING MARCH 1st.	RECEIPTS.			EXPENDITURES.							Accessions, volumes..	Number of volumes..	Circulation.....	Membership
	Fees and dues.. ...	Other	Total	Books.....	Periodicals..	Binding	Total, books, periodicals, binding....	Salaries.....	Other	Total.....				
1881.....	\$8,713 72	.....	\$8,713 72	\$2,726 37	\$1,243 36	\$1,386 49	\$5,356 22	\$5,341 00	\$6,123 37	\$16,826 59	1,878	30,207	47,550	1,537
1882.....	8,393 75	\$56 60	8,450 25	1,702 91	1,314 18	745 48	3,762 57	5,342 50	5,239 99	14,245 06	1,356	31,187	46,373	1,524
1883.....	8,240 50	69 35	8,318 85	2,154 74	1,526 63	738 19	4,419 56	5,342 50	4,724 63	14,486 69	1,798	32,620	44,236	1,618
1884.....	10,146 08	98 00	10,244 08	2,105 01	1,482 73	698 35	4,206 09	4,992 09	5,626 23	14,854 32	2,053	34,620	51,464	1,919
1885.....	11,553 00	44 15	11,597 15	4,134 88	1,147 74	1,327 21	6,598 83	5,488 15	7,910 07	19,925 05	2,792	36,328	50,759	2,123
1886.....	14,123 50	140 60	14,264 10	4,130 32	1,051 37	1,194 90	6,376 59	6,132 00	7,490 91	19,899 50	3,302	38,627	72,251	2,531
1887.....	15,227 50	184 25	15,411 75	4,198 03	1,382 52	1,294 89	6,815 44	6,445 50	6,819 61	20,080 55	3,394	41,465	89,491	2,852
1888.....	17,503 50	209 16	17,712 06	4,689 69	1,386 63	1,438 97	7,465 29	6,602 00	6,224 51	20,291 81	3,809	45,051	92,827	3,160
1889.....	19,803 00	248 85	20,054 85	3,846 71	1,589 18	2,413 14	7,849 03	7,540 00	7,283 63	22,672 66	3,713	47,656	100,503	3,557
1890.....	21,669 00	403 90	22,072 90	4,824 81	1,276 22	1,648 07	7,749 10	8,162 50	7,612 37	23,523 97	4,701	51,820	114,678	3,970
1891.....	22,863 50	1,400 35	24,263 85	4,720 13	1,670 81	2,594 43	8,985 40	8,883 00	7,401 98	25,270 38	4,147	54,982	135,972	4,076
1892.....	23,333 50	1,666 12	24,999 62	4,506 41	2,340 61	1,641 31	8,488 33	9,712 50	8,341 12	26,541 95	4,017	57,934	139,090	4,130
1893.....	26,656 50	1,619 05	28,275 55	5,097 42	1,215 05	1,731 43	8,043 90	10,059 50	7,251 07	25,354 47	5,321	62,444	152,709	5,541
1894.....	23,916 00	2,020 40	25,936 40	5,197 65	1,532 09	2,477 81	9,207 55	10,794 65	7,794 58	27,733 78	5,086	66,462	160,992	4,371
1895.....	22,400 00	2,104 01	24,504 01	3,714 11	2,222 34	1,325 01	7,261 46	9,154 85	7,383 45	23,799 76	3,733	68,363	153,330	4,465
1896.....	23,710 00	1,785 70	25,495 70	3,446 06	1,487 32	854 09	5,787 47	8,000 70	9,857 23	23,645 40	3,475	70,818	185,875	4,709
1897.....	23,272 00	1,883 70	24,855 70	3,565 50	1,471 46	1,205 55	6,242 51	8,554 35	8,317 55	23,114 41	.431	73,645	166,971	4,493
1898.....	23,838 50	1,693 70	25,532 20	3,641 22	829 31	1,170 89	5,641 42	8,952 05	4,622 77	19,216 24	3,653	76,595	186,189	4,385

APPENDIX II.

Location and classification of the books in the Library:

	<i>Reference</i>	<i>Circulation</i>
Encyclopaedias	289	....
Bibliography	342	50
Periodicals	2,877	1,555
Philosophy	198	834
Theology	89	1,264
Sociology	1,239*	1,782
Education	146*	340
Philology	137*	159
Natural Science	2,522*	1,814
Useful Arts	4,154*	2,351
Fine Arts	954*	1,110
Literature	87	562
Poetry	112	1,194
Drama	80	377
Fiction .....	....	13,795
Juvenile Fiction .....	....	1,706
Essays and Speeches .....	....	1,209
Letters .....	....	106
Humor .....	....	196
German .....	....	596
French .....	....	1,894
Italian .....	....	13
Spanish .....	....	230
Travel	343	2,702
Biography	183	3,261
History	422	2,811
Juvenile Travel, History, Science, etc..	....	514
California Reports	395	....

*Including periodicals.

United States Government Reports....	5,005	....
Patents (British)	5,436	....
Patents (American)	692	....
Newspapers	822	....
Directories	307	....
Miscellaneous	677	1,066
Registers (number of books in mem- bers' hands) .....	....	5,596
	<u>27,508</u>	<u>49,087</u>

APPENDIX III.—GIFTS.

List of Donors, 1897-1898.

Books Pamphlets Maps

American Type Founders Co.....	1	
Anonymous	3	2
Armour Institute of Technology.....		1
Associated Charities of Boston.....		1
Associated Spanish and Cuban Press...		1
Atherton, Mary L.....	1	
Berney, W.	1	
Blakenay, W. T.		1
Bliss, Rev. W. D. P.....	1	
Boston Book Company		3
Boston Public Library.....		2
Boyd, N. E.....		1
Brooklyn Library		1
CALIFORNIA—		
Secretary of State.....	1	
State Board of Horticulture.....	1	
State Medical Society	1	
State Mining Bureau.....	3	1
California Academy of Sciences.....		10
California Society, Sons American Revolution		1
California State Board of Trade.....		41
CANADA—		
Department of Geology.....		4
Department of Interior.....		19
Carnegie Library		2
Chamber of Commerce (S. F.).....		1
Cheever, Mrs. Mary	18	15
Cleveland Public Library.....	1	

List of Donors, 1897-1898.

Books Pamphlets Maps

Colman, Mrs. Chas.	1	
Consulado General de Guatemala.....		1
Cuenea, Mrs. L. M.....	1	60
Davis, Horace—Annual subscription to “New World.”		
Denicke, E. A.....	1	2
Detroit Public Library		1
Deville, E.	1	
Dortignacq, Chas.		1
Dunn, H. D.....		1
Dunn, P. L.....	1	
“Eastern World,” Yokohama		1
Ellsworth, Miss.....	1	
English Patent Office Reports.....		149
Enoch Pratt Free Library.....		1
Everett, S. L.....		1
“Examiner” (S. F.), (1 Picture)		
Fairmount Park Art Association.....		3
Faust, H. W.....		2
Field Columbian Museum.....		9
Foster, J. W.....		1
Fowler, C. N.....		1
Gallagher, E. A. T.....		1
Gorman, M. W.....		2
Graves, F. B.....	1	
Hanks, H. G.....		1
Hanna, H. H.....		1
Harris, F. E.....	4	
Harvard University.....		1
Hawaiian Government		1
Healy, P. J.....		1
Hicks, Judd Co. (1 Photograph).....		
His Highness, the Maharaja of Jeypore.	6	
Hospital for Children (S. F.).....		1
Houghton, J. C.....		1

List of Donors, 1897-1898.	Books	Pamphlets	Maps
Hucke, Julius.....	1		
Hungerford, Austin N.....	1		
Illinois State Historical Library.....	1		
Imperial University, Tokio.....	1		
Indian Rights Association.....	8		
Interstate Commerce Commission.....	2	1	
Iowa Masonic Library.....	1		
Irish National Federation of America..	1		
Jackson, P. H., Co.....	1		
Jellison, A. M.....	1		
John Crerar Library.....	4		
Johns Hopkins University.....	1		
Keith, Jas	1		
Ladd, P. B.....	1		
Langrehr, H. C.....		2	
Leland Stanford Junior University....	3		
Lemcke and Buechner.....	1		
Library Company of Philadelphia.....	2		
Lick Observatory.....		18	
Life-Saving Station (S. F.).....	1		
Los Angeles Public Library.....	1		
Lunstedt, H.....	1		
McCormick Harvesting Machine Co....	1		
McDonald, Al.....		2	
McLaren, John.....	2	3	
Manson, N. J.....	1		
Maryland Institute.....	1		
MASSACHUSETTS—			
Bureau of Statistics of Labor.....	9		
Mass. Charitable Mechanics' Assn.....	1		
Master Car Builders' Assn.....	1		
"Mayor of Bath".....	1		
Mayor of Cambridge	1	2	
Mexico—Secretary of State.....	8		
Millard, F. B.....	2		

List of Donors, 1897-1898.	Books	Pamphlets	Maps
Minneapolis Public Library.....	2		
Munn & Co.....	1		
Munro, R. R.....	1		
Nelson, Thos., & Sons.....	1		
New Hampshire Board of Library Com.	1		
New York Public Library.....	6		
Newark Free Public Library.....	2		
Pacific Coast Steamship Co.....	5		5
Paterson (N. J.) Free Library.....	1		
Patton, W., annual subscription to "Brickbuilder."			
Perkins, Geo. C.....	8	17	
Perry, R. D.....	2	8	
Philadelphia Free Library	2		
Philadelphia Times	1		
Pratt Institute	2		
Presson, G. R.	1		
Princeton University	2		
Providence Public Library.....	1		
Queensland. Registrar of Patents.....	1		
Reed, Mrs. A. M.....	1		
Reinstein, J. B.	2		
Roberts, Jno. T.....	1		
Robinson, Jno. R.....	2		
Roebling, Jno. A. Sons Co.....	1		
Rose-Soley, J. F.	1		
St. Louis Mercantile Library Ass'n.....	2		
St. Louis Public Library.....	1		
SAN FRANCISCO—			
Board of Education	1		
Fire Commissioners.....		1	
Park Commissioners	2		
Superintendent Public Schools.....	1		
San Francisco Farmers' Club.....		4	

List of Donors, 1897-1898.

Books Pamphlets Maps

San Francisco Free Public Library....	1	13	
Sandy, B. J. C.....		1	
Santa Clara College.....	2		
Schaffner, H.	1		
Seattle Public Library.....	1		
Smithsonian Institute	4	7	
Society of California Pioneers.....	2		
Stallard, J. H.....	4		
Strong, W. L.....	1		
Sun (Baltimore)	1		
Sutherland, H. V.....	4		
Syracuse Central Library.....	1		
Temple Publishing Co.....	9		
Thurston, Lorrin A.....	2		
Trenton Iron Co.....	1		
Troyer, Carlos	1		
Tuckerman, Dr. F.....	9		
Underwriters' Fire Patrol.....	2		
UNITED STATES—			
Adjutant General's Office.....	1		
Agriculture	1		
Bureau of Education.....	1		
Civil Service Commission.....	2		
Coast and Geodetic Survey.....	2	1	
Commissioner of Labor.....	2	5	
Commissioner of Patents.....	2		
Interior Department	13	83	1 sheet
Naval Observatory	2		
Navy Department	3		
State Department	2	6	
Superintendent of Documents.....	128	132	
Treasury Department	5	13	
War Department	6	2	
University of California	2	7	
University of Chicago.....		1	

List of Donors, 1897-1898.

Books Pamphlets Maps

University of Colorado	1		
University of Pennsylvania	1		
Vassar College	1		
Wallis, Miss	4	1	
Whittier, J. H.....	1		
Whympier, E.	1		
Wilson, Horace	2		
Wood, H. T.....	1		
Woodbury, J. P.....	1		
Woolcock, W. H.....	2		
Wright, Stephen M.....	1		
Ziegler and Co.....	1		

APPENDIX IV.—PERIODICALS PRESENTED.

Amador Ledger, Jackson (weekly).
 American Institute of Mining Engineers, Transactions, New York.
 American Kitchen Magazine, Boston (monthly).
 Anderson Valley News, Anderson (weekly).
 A. O. U. W. Bulletin, San Francisco (monthly).
 Appeal to Reason, Girard, Kansas (weekly).
 Argus, Melbourne (daily).
 Arizona Weekly Journal-Miner, Prescott, (weekly).
 Astronomical Society of the Pacific, Publications, San Francisco (irregular).
 Australasian, Melbourne (daily).
 Berkeley Herald, Berkeley, Cal., (weekly).
 Boston Hygiene, Boston (monthly).
 Breeder and Sportsman, San Francisco (weekly).
 Brickbuilder, Boston (monthly).
 Bridgeport Chronicle-Union, Bridgeport (weekly).
 British Californian, San Francisco (monthly).
 British Columbia Mining Critic, Vancouver, B. C., (weekly).
 Bulletin, San Francisco (daily).
 Bureau of Statistics, Report, Washington, D. C. (quarterly).
 California, San Jose, Cal. (weekly).
 California Academy of Sciences, Bulletins, Proceedings, Papers, San Francisco.
 California Architect and Building News, San Francisco (monthly).
 California Demokrat, San Francisco (daily).
 California Fruit Grower, San Francisco (weekly).
 California Insurance Review, San Francisco (monthly).
 California Journal, San Francisco (weekly).
 California Medical Journal, San Francisco (monthly).
 California Orchard and Farm, San Francisco, Cal. (weekly).
 California Turf, San Francisco (weekly).
 California Volksfreund, San Francisco (weekly).
 California Weather Service Bulletin, Sacramento (weekly).
 Californian, Bakersfield, Cal (weekly).
 Californian, Berkeley, Cal. (semi-weekly).
 Calaveras Weekly Citizen, San Andreas (weekly).
 Canadian Patent Office Records, Ottawa (monthly).

Capital, Los Angeles (weekly).
 Central Californian, San Miguel, Cal. (weekly).
 Chico Daily Enterprise, Chico, Cal.
 Chino Valley Champion, Chino, Cal. (weekly).
 Chrysanthemum, San Francisco, Cal. (monthly).
 Citrograph, Redlands, Cal. (weekly).
 City Argus, San Francisco (weekly).
 Clear Lake Press, Lakeport, Lake Co., Cal. (weekly).
 Cloverdale Reveille, Cloverdale, Cal. (weekly).
 Congressional Record, Washington, D. C.
 Contra Costa Gazette, Martinez, Cal. (weekly).
 Corning Observer, Corning, Cal. (weekly).
 Cumulative Index of Periodicals, Cleveland (monthly).
 Current Affairs, San Francisco, Cal. (monthly).
 Cycling West, Denver and San Francisco (weekly).
 Daily Californian, Berkeley, Cal.
 Daily Commercial News, San Francisco.
 Daily Hotel Gazette, Los Angeles, Cal.
 Daily Humboldt Standard, Eureka, Cal.
 Daily Telegraph, Sydney, N. S. W.
 Del Norte Record, Crescent City, Cal. (weekly).
 Democrat, Hanford, Cal. (weekly).
 Democratic Banner, Sonora, Cal. (weekly).
 Dixon Tribune, Dixon, Cal. (weekly).
 Downey Champion, Downey, Cal. (weekly).
 Dunsmuir News, Dunsmuir, Cal. (weekly).
 Eastern World, Yokohama, Japan, (weekly).
 El Comercio, San Francisco (weekly).
 Elevator, San Francisco (weekly).
 Elko Independent, Elko, Nevada (weekly).
 Enterprise, Castroville, Cal. (weekly).
 Escondido Times, Escondido, San Diego Co., Cal. (weekly).
 Evening Herald, Nevada City, Cal. (daily).
 Evening Post, San Francisco (daily).
 Examiner, San Francisco, Cal. (daily).
 Ferndale Independent, Ferndale (weekly).
 Field Sports, San Francisco (weekly).
 Folsom Telegraph, Folsom, Cal. (weekly).
 Food, Home and Garden, Philadelphia (monthly).
 Foot Hills Weekly Tidings, Grass Valley.
 Free Lance, Hollister, Cal. (weekly).
 Fresno Republican, Fresno (daily).
 Germania, Los Angeles, Cal. (weekly).

Gilroy Advocate, Gilroy (weekly).
 Gilroy Gazette, Gilroy, Cal. (weekly).
 Graphic, Santa Maria, Cal. (weekly).
 Grocer and Country Merchant, San Francisco (weekly).
 Harmony, San Francisco (monthly).
 Harvard University Bulletin, Cambridge (irregular).
 Hayes Valley Advertiser, San Francisco, Cal. (weekly).
 Hebrew, San Francisco (weekly).
 Herald of Trade and Finance, San Francisco, Cal. (weekly).
 Home Alliance, Woodland, Cal. (weekly).
 Hueneme Herald, Hueneme, Cal. (weekly).
 Human Nature, San Francisco (monthly).
 Illustrated Official Journal (Patents) London (monthly).
 Imports and Exports, Summary, Washington, D. C. (monthly).
 Independent, Paso Robles, Cal. (weekly).
 Insignia, San Francisco (monthly).
 Insurance Times, New York (monthly).
 Inyo Register, Bishop, Cal. (weekly).
 Jewish Progress, San Francisco (weekly).
 Jewish Times, San Francisco (weekly).
 Johns Hopkins University Circulars, Baltimore (monthly).
 Journal of the Western Society of Engineers, Chicago (bi-monthly).
 Kern Standard, Kern City (weekly).
 Lake County Bee, Lakeport, Cal. (weekly).
 Lassen Advocate, Susanville, Cal. (weekly).
 L. A. W. Bulletin, Chicago (weekly).
 Los Alamos Central, Los Alamos, Cal. (weekly).
 Los Angeles Saturday Times, Weekly Mirror, Los Angeles, Cal. (weekly).
 Los Gatos News, Los Gatos (weekly).
 Manufacturers' and Producers', San Francisco (monthly).
 Machinery Market and Exporter, London (irregular).
 Mekeel's Weekly Stamp News, St. Louis, Mo. (weekly).
 Mail of Woodland, Woodland, Cal. (daily).
 Marin County Tocsin, San Rafael, Cal. (weekly).
 Marysville Daily Appeal, Marysville, Cal.
 Mendocino Beacon, Mendocino, Cal. (weekly).
 Mendocino Dispatch Democrat, Ukiah (weekly).
 Merchants' Association Review, San Francisco, Cal. (monthly).
 Mining and Scientific Press, San Francisco (weekly).
 Mission Journal, San Francisco (weekly).
 Modesto Herald, Modesto, Cal. (weekly).
 Monitor, San Francisco (weekly).

Monthly Bulletin of the Bureau of American Republic, Washington, D. C. (monthly).
 Monthly Weather Reports, Washington, D. C.
 Monterey Cypress, Monterey, Cal. (weekly).
 Monterey New Era, Monterey, Cal. (weekly).
 Napa Register, Napa, Cal. (weekly).
 Nation, San Francisco (weekly).
 Natural Food, London (monthly).
 New Age, San Francisco (monthly).
 Newcastle News, Newcastle, Cal. (weekly).
 New World, New York (quarterly).
 News, San Pedro, Cal. (weekly).
 Oakland Daily Evening Tribune, Oakland, Cal.
 Occident, Berkeley, Cal. (weekly).
 Official Gazette of the Patent Office, Washington, D. C.
 Official Journal of the Patent Office, London.
 Orange County Herald, Santa Ana, Cal. (weekly).
 Oregon State Journal, Eugene, Or. (weekly).
 Oroville Register, Oroville, Cal. (weekly).
 Pacific Calendar and Catholic Church Bulletin, San Francisco (monthly).
 Pacific Churchman, San Francisco (semi-monthly).
 Pacific Coast Fancier's Monthly, San Jose, Cal.
 Pacific Health Journal, Oakland (monthly).
 Pacific Medical Journal, San Francisco (monthly).
 Pacific Northwest, Portland (monthly).
 Pacific Rural Press, San Francisco (weekly).
 Pacific Tree and Vine, San Jose, Cal. (monthly).
 Pacific Town Talk, San Francisco (weekly).
 Pacific Union Printer, San Francisco (monthly).
 Paradise of the Pacific, Honolulu (irregular).
 Paso Robles Leader, Paso Robles, Cal. (weekly).
 Paso Robles Record, Paso Robles, Cal. (weekly).
 Petaluma Daily Courier, Petaluma, Cal.
 Petaluma Weekly Budget, Petaluma.
 Penny Press, Santa Cruz (daily).
 Philatelic Californian, San Francisco (monthly).
 Pioneer, San Jose, Cal. (monthly).
 Placer Argus, Auburn, Cal. (weekly).
 Placer Herald, Auburn, Cal. (weekly).
 Pleasanton Times, Pleasanton, Cal. (weekly).
 Plumas National Bulletin, Quincy, Cal. (weekly).
 Porterville Enterprise, Porterville, Cal. (weekly).

Post, Orange, Cal. (weekly).
 Press and Horticulturist, Riverside, Cal. (weekly).
 Public Ownership Review, Colorado (monthly).
 Queensland Government Gazette, New Zealand (irregular).
 Reasoner, San Luis Obispo, Cal. (weekly).
 Record, Larkspur (weekly).
 Redwood City Democrat, Redwood, Cal. (weekly).
 Red Bluff News, Red Bluff (weekly).
 Reflector, Napa, Cal. (weekly).
 Reno Evening Gazette, Reno, Nev. (daily).
 Revista Hispano-Americana, San Francisco (monthly).
 River News, Rio Vista, Cal. (weekly).
 St. Helena Star, St. Helena, Cal. (weekly).
 Salinas Weekly Index, Salinas, Cal.
 San Francisco Chronicle (daily).
 San Francisco Daily Report.
 San Francisco Hotel Gazette (weekly).
 San Francisco Journal of Commerce (weekly).
 Sanger Herald, Sanger, Cal. (weekly).
 San Jose Herald (daily).
 San Jose Weekly Mercury.
 San Luis Obispo Tribune, San Luis Obispo, Cal. (weekly).
 San Miguel Messenger, San Miguel (weekly).
 Santa Clara Magazine, San Jose (monthly).
 Santa Cruz Surf, Santa Cruz, Cal. (weekly).
 Santa Maria Times, Santa Maria, Cal. (weekly).
 Santa Ynez Argus, Santa Ynez, Cal. (weekly).
 Sausalito News, Sausalito, Cal. (weekly).
 Saturday Beacon, Pomona, Cal. (weekly).
 Saturday Press, Oakland, Cal. (weekly).
 Sebastopol Times, Sebastopol, Cal. (weekly).
 Semi-Weekly Colonist, Victoria, B. C.
 Semi-Weekly Colusa Sun, Colusa, Cal.
 Sequoia, Palo Alto (weekly).
 Shorthand Educator, Brooklyn, N. Y. (monthly).
 Smithsonian Miscellaneous Collections, Washington, D. C.
 Solano Republican, Suisun, Cal. (weekly).
 Sonoma County Farmer, Santa Rosa, Cal. (weekly).
 South California Farmer, San Diego, Cal. (monthly).
 Specifications of Inventions, London.
 Specifications and Drawings of Patents, Washington, D. C.
 Star, San Francisco (weekly).
 Sunday Press, Albany, N. Y. (weekly).

Sutter Independent, Yuba City, Cal. (weekly).
 Students' Journal, New York (monthly).
 Sydney Morning Herald, Sydney.
 Technical Society of the Pacific Coast, Transactions, San Francisco (monthly).
 Techniker Der, Philadelphia (monthly).
 Traveller's Record, Hartford (monthly).
 Traveller, San Francisco (monthly).
 Ukiah Republican Press, Ukiah, Cal. (weekly).
 United States Consular Reports, Washington, D. C.
 United States Government Publications, Monthly Catalogue, Washington, D. C.
 Ventura Independent, Ventura, Cal. (weekly).
 Voice of Labor, San Francisco (weekly).
 Wasp, San Francisco (weekly).
 Weekly Antioch Ledger, Antioch, Cal.
 Weekly Colusa Sun, Colusa, Cal.
 Weekly Galt Gazette, Galt, Cal.
 Weekly Independent, Elko, Nev.
 Weekly Palo Alto, Mayfield, Cal.
 Weekly People's Cause, Red Bluff, Cal.
 Weekly Visalia Delta, Visalia, Cal.
 Western Journal of Education, San Francisco (monthly).
 Western Sports, San Francisco, Cal. (weekly).
 West Side Index, Newman, Cal. (weekly).
 Winters' Express, Winters, Cal. (weekly).
 Wood and Iron, San Francisco (monthly).
 Yreka Journal, Yreka, Cal. (weekly).
 Yuma Sun, Yuma, A. T. (weekly).

APPENDIX V.—GENERAL LIST OF PERIODICALS, 1898.

[A list of periodicals by towns, will be found in the Reading Room.]

ABC Guide, San Francisco (monthly).
 Academy, London (weekly).
 *Amador Ledger, Jackson (weekly).
 *American Academy of Political and Social Science, Annals, Philadelphia (bi-monthly).
 American Antiquarian, Chicago (bi-monthly).
 American Architect and Building News, Boston (weekly).
 American Catholic Quarterly Review, Philadelphia.
 American Chess Magazine, Philadelphia (monthly).
 American Chemical Journal, Baltimore (monthly).
 American Economic Association, Publications, Baltimore (bi-monthly).
 American Engineer and Railroad Journal, New York (monthly).
 American Field, Chicago (weekly).
 American Gas Light Journal, New York (weekly).
 American Geologist, Minneapolis (monthly).
 American Historical Review, New York (quarterly).
 *American Institute of Mining Engineers, Transactions, New York.
 American Institute of Electrical Engineers, Transactions, New York (Monthly).
 American Journal of Mathematics, Baltimore (quarterly).
 American Journal of Philology, Baltimore (quarterly).
 American Journal of Psychology, Worcester, Mass. (quarterly).
 American Journal of Science, New Haven (monthly).
 American Journal of Sociology, Chicago (quarterly).
 *American Kitchen Magazine, Boston (monthly).
 American Machinist, New York (weekly).
 American Magazine of Civics, New York (monthly).
 American Monthly Microscopical Journal, Washington, D. C.
 American Naturalist, Philadelphia (monthly).
 American Society of Civil Engineers, Transactions, New York.
 American Society of Mechanical Engineers, Transactions, New York.
 American Statistical Association, Publications, Boston (quarterly).

*Presented.

*Anderson Valley News, Anderson (weekly).
 Annalen der Physik und Chemie, Leipsic (monthly).
 Annalen der Physik und Chemie Beiblatter, Leipsic (monthly).
 Annales de Chimie et de Physique, Paris (monthly).
 Annales des Mines, Paris (monthly).
 Annales des Ponts et Chaussees, Paris (monthly).
 Annals of Hygiene, Philadelphia (monthly).
 *A. O. U. W. Bulletin, San Francisco (monthly).
 *Appeal to Reason, Girard, Kansas (weekly).
 Architectural Review, Boston (semi-quarterly).
 Arena, Boston (monthly).
 Argonaut, San Francisco (weekly).
 *Argus, Melbourne (daily).
 *Arizona Weekly Journal-Miner, Prescott (weekly).
 Arizona Weekly Star, Tucson, A. T. (weekly).
 Army and Navy Journal, New York (weekly).
 Army and Navy Register, Washington, D. C. (weekly).
 Art Amateur, New York (monthly).
 Art Journal, London (monthly).
 Art (l') pour Tous, Paris (monthly).
 Association of Engineering Societies, Journal, Chicago (monthly).
 *Astronomical Society of the Pacific, Publications, San Francisco (irregular).
 Astrophysical Journal, Northfield, Minn. (monthly).
 Athenaeum, London (weekly).
 Atlanta Constitution, Atlanta, Ga. (weekly).
 Atlantic Monthly, Boston.
 *Australasian, Melbourne (daily).
 Baltimore Sun, Baltimore (weekly).
 Banner of Light, Boston (weekly).
 Bee, Sacramento (daily).
 Berg-und-Huettenmaennische Zeitung, Leipsic (weekly).
 *Berkeley Herald, Berkeley, Cal. (weekly).
 Bismarck Weekly Tribune, Bismarck, N. D. (weekly).
 Blackwood's Edinburgh Magazine, New York (monthly).
 Bon Ton (le), New York (monthly).
 Bookbuyer, New York (monthly).
 Bookman, New York (monthly).
 Book-seller, London (monthly).
 Boston Hygiene, Boston (monthly).
 Boston Morning Journal.

*Presented.

Boston Weekly Transcript.
 Braithwaite's Retrospect, London (semi-annual).
 *Breeder and Sportsman, San Francisco (weekly).
 *Brickbuilder, Boston (monthly).
 *Bridgeport Chronicle-Union, Bridgeport (weekly).
 British Association for the Advancement of Science, Report (London).
 *British Californian, San Francisco (monthly).
 British Chess Magazine, London (monthly).
 *British Columbia Mining Critic, Vancouver, B. C. (weekly).
 British Journal of Photography, London (weekly).
 Brooklyn Eagle, Brooklyn, N. Y. (weekly).
 Buffalo Courier, Buffalo, N. Y. (weekly).
 Builder, London (monthly).
 Bulletin, San Francisco (daily).
 *Bulletin, San Francisco (daily).
 Bulletin, Sydney (weekly).
 *Bureau of Statistics, Report, Washington, D. C. (quarterly).
 *California, San Jose (weekly).
 *California Academy of Sciences, Bulletins, Proceedings, Papers, San Francisco.
 *California Architect and Building News, San Francisco (monthly).
 *California Demokrat, San Francisco (daily).
 *California Fruit Grower, San Francisco (weekly).
 *California Insurance Review, San Francisco (monthly).
 *California Journal, San Francisco (weekly).
 *California Medical Journal, San Francisco (monthly).
 *California Orchard and Farm, San Francisco, Cal. (weekly).
 *California Turf, San Francisco (weekly).
 *California Volksfreund, San Francisco (weekly).
 *California Weather Service Bulletin, Sacramento (weekly).
 *Californian, Bakersfield, Cal. (weekly).
 *Californian, Berkeley, Cal. (semi-weekly).
 *Calaveras Weekly Citizen, San Andreas (weekly).
 *Canadian Patent Office Records, Ottawa (monthly).
 *Capital, Los Angeles (weekly).
 Carpentry and Building, New York (monthly).
 Cassier's Magazine, New York (monthly).
 Catholic World, New York (monthly).
 *Central Californian, San Miguel, Cal. (weekly).
 Century Illustrated Monthly Magazine, New York.

*Presented.

Chambers' Journal, London (monthly).
 Charities Review, Boston (monthly).
 Chataquan, Meadville, Pa. (monthly).
 Chemical News, London (weekly).
 Chemical Society Journal, London (monthly).
 Chicago Times-Herald (daily).
 Chicago Tribune (weekly).
 *Chico Daily Enterprise, Chico, Cal.
 *Chino Valley Champion, Chino, Cal. (weekly).
 Christian Science Journal, Boston (monthly).
 *Chrysanthemum, San Francisco, Cal. (monthly).
 Cincinnati Gazette (weekly).
 Citizen, Philadelphia (monthly).
 *Citrograph, Redlands, Cal. (weekly).
 *City Argus, San Francisco (weekly).
 *Clear Lake Press, Lakeport, Lake Co., Cal. (weekly).
 Clipper, New York (weekly).
 *Cloverdale Reveille, Cloverdale, Cal. (weekly).
 Coming Nation, Tennessee City (weekly).
 Commercial and Financial Chronicle, New York (weekly).
 Comptes Rendus de l'Academie des Sciences, Paris (weekly).
 *Congressional Record, Washington, D. C.
 Contemporary Review, London (monthly).
 *Contra Costa Gazette, Martinez, Cal. (weekly).
 Cornhill Magazine, London (monthly).
 *Corning Observer, Corning, Cal. (weekly).
 Cosmopolitan, New York (monthly).
 Courier-Journal, Louisville, Ky. (weekly).
 *Cumulative Index of Periodicals, Cleveland (monthly).
 Critic, New York (weekly).
 *Current Affairs, San Francisco, Cal. (monthly).
 Current History, Buffalo, N. Y. (quarterly).
 Current Literature, New York (monthly).
 Curtis' Botanical Magazine, London (monthly).
 *Cycling West, Denver and San Francisco (weekly).
 *Daily California, Berkeley, Cal.
 *Daily Commercial News, San Francisco.
 *Daily Hotel Gazette, Los Angeles, Cal.
 *Daily Humboldt Standard, Eureka, Cal.
 *Daily Telegraph, Sydney, N. S. W.
 Decorator and Furnisher, New York (monthly).

*Presented.

- *Del Norte Record, Crescent City, Cal. (weekly).
- *Democrat, Hanford, Cal. (weekly).
- *Democratic Banner, Sonora, Cal. (weekly).
- Demorest's Family Magazine (monthly).
- Deutsche Review, Stuttgart (monthly).
- Deutsche Rundschau, Berlin (monthly).
- Dial, Chicago (monthly).
- Dinglers Polytechnisches Journal, Stuttgart (weekly).
- Direct Legislation Record, New York (monthly).
- *Dixon Tribune, Dixon, Cal. (weekly).
- *Downey Champion, Downey, Cal. (weekly).
- *Dunsmuir News, Dunsmuir, Cal. (weekly).
- *Eastern World, Yokohama (weekly).
- Eclectic Magazine, New York (monthly).
- Economist, London (weekly).
- Edinburgh Review, London (quarterly).
- Education, Boston (monthly).
- Educational Review, New York (monthly).
- *El Comercio, San Francisco (weekly).
- Electrical Engineer, New York (weekly).
- Electrical Engineering, Chicago (semi-monthly).
- Electrical Review, London (weekly).
- Electrical Review, New York (weekly).
- Electrical World, New York (weekly).
- Electrician, London (weekly).
- *Elevator, San Francisco (weekly).
- *Elko Independent, Elko, Nevada (weekly).
- Engineer, London (weekly).
- Engineer, New York (bi-weekly).
- Engineering, London (weekly).
- Engineering and Building Record and Sanitary Engineer, New York (weekly).
- Engineering and Mining Journal, New York (weekly).
- Engineering Magazine, New York (monthly).
- Engineering News and American Railroad Journal, New York (weekly).
- English Illustrated Magazine, London (monthly).
- English Mechanic and World of Science, London (weekly).
- *Enterprise, Castroville, Cal. (weekly).
- Erythea, Berkeley, Cal. (monthly).
- *Escondido Times, Escondido, San Diego Co., Cal. (weekly).

*Presented.

- Esoteric, Applegate, Cal. (monthly).
- *Evening Herald, Nevada City, Cal. (daily).
- *Evening Post, San Francisco (daily).
- Evening Star, Washington, D. C. (daily).
- Examiner, San Francisco (daily).
- *Examiner, San Francisco (daily).
- Farmers' Tribune, Minneapolis (weekly).
- Federated Institution of Mining Engineers, Transactions, London.
- *Ferndale Independent, Ferndale, Cal. (weekly).
- Field, London (weekly).
- *Field, Sports, San Francisco (weekly).
- Fliegende Blatter, Munich (weekly).
- *Folsom Telegraph, Folsom, Cal. (weekly).
- *Food, Home and Garden, Philadelphia (monthly).
- *Foot Hills Weekly Tidings, Grass Valley.
- Forest and Stream, New York (weekly).
- Fortnightly Review, London (monthly).
- Forum, New York (monthly).
- Frank Leslie's Popular Monthly, New York (monthly).
- Franklin Institute, Journal, Philadelphia (monthly).
- *Free Lance, Hollister, Cal. (weekly).
- Freidenker, Milwaukee (weekly).
- *Fresno Republican, Fresno (daily).
- Galveston Semi-weekly News, Galveston, Texas (weekly).
- Garden and Forest, New York (weekly).
- Garten laube (weekly).
- Gazette des Beaux-Arts, Paris (monthly).
- Geographical Journal (including the proceedings of the Royal Geographical Society), London (monthly).
- Geological Society, Quarterly Journal, London.
- Geological Society of America, Bulletin, Rochester, N. Y. (irregular).
- Germania, Los Angeles, Cal. (weekly).
- *Gilroy Advocate, Gilroy (weekly).
- *Gilroy Gazette, Gilroy, Cal. (weekly).
- Good Housekeeping, Springfield, Mass. (monthly).
- Good Words, London (monthly).
- *Graphic, Santa Maria, Cal (weekly).
- Graphic, London (weekly).
- *Grocer and Country Merchant, San Francisco (weekly).
- Guide, San Francisco (daily).
- Guy's Hospital Reports, London (annual).

*Presented.

Hall's Journal of Health, New York (monthly).
 *Harmony, San Francisco (monthly).
 Harper's Bazar, New York (weekly).
 Harper's Monthly Magazine, New York.
 Harper's Round Table, New York (weekly).
 Harper's Weekly, New York.
 *Harvard University Bulletin, Cambridge (irregular).
 *Hayes Valley Advertiser, San Francisco, Cal. (weekly).
 *Hebrew, San Francisco (weekly).
 Helena Weekly Herald, Helena, Montana.
 *Herald of Trade and Finance, San Francisco, Cal. (weekly).
 *Home Alliance, Woodland, Cal. (weekly).
 Horseless Age, New York (monthly).
 Horseman, Chicago (weekly).
 Hub, New York (monthly).
 *Hueneme Herald, Hueneme, Cal. (weekly).
 *Human Nature, San Francisco (monthly).
 Ice and Refrigeration, Chicago (monthly).
 Illustrated American, New York (weekly).
 Illustrated London News, London (weekly).
 Illustrated London News, New York (weekly).
 *Illustrated Official Journal (Patents), London (monthly).
 Illustration (l'), Paris (weekly).
 *Imports and Exports, Summary, Washington, D. C. (monthly).
 Independent, New York (weekly).
 *Independent, Paso Robles, Cal. (weekly).
 Industries and Iron, London (weekly).
 Inland Architect, Chicago (monthly).
 Inland Printer, Chicago (monthly).
 Institution of Civil Engineers, Proceedings, London.
 Institution of Mechanical Engineers, Proceedings, London (quarterly).
 Institution of Naval Architects, Transactions, London (bi-monthly).
 *Insignia, San Francisco (monthly).
 *Insurance Times, New York (monthly).
 International Journal of Ethics, Philadelphia (quarterly).
 International Studio, (monthly).
 *Inyo Register, Bishop, Cal. (weekly).
 Iron Age, New York (weekly).
 Iron and Steel Institute, Journal (biennial).
 Irrigation Age, Chicago (monthly).

*Presented.

*Jewish Progress, San Francisco (weekly).
 *Jewish Times, San Francisco (weekly).
 Johns Hopkins University Studies, Baltimore.
 *Johns Hopkins University Circulars, Baltimore (monthly).
 Journal of Geology, Chicago (semi-quarterly).
 Journal of Political Economy, Chicago (quarterly).
 *Journal of the Western Society of Engineers, Chicago (bi-monthly).
 Judge, New York (weekly).
 *Kern Standard, Kern City (weekly).
 Ladies' Home Journal, Philadelphia (monthly).
 *Lake County Bee, Lakeport, Cal. (weekly).
 Lancet, London (weekly).
 *Lassen Advocate, Susanville, Cal. (weekly).
 *L. A. W. Bulletin, Chicago (weekly).
 Leslie's Weekly Illustrated (New York).
 Liberty, Chicago (weekly).
 Library Journal, New York (monthly).
 Life, New York (weekly).
 Lippincott's Magazine, Philadelphia (monthly).
 Literary Digest, New York (weekly).
 Literary News, New York (monthly).
 Literary World, Boston (fortnightly).
 Literature, New York (weekly).
 Littell's Living Age, Boston (weekly).
 Longman's Magazine, London (monthly).
 *Los Alamos Central, Los Alamos, Cal. (weekly).
 *Los Angeles Saturday Times, Weekly Mirror, Los Angeles, Cal. (weekly).
 Los Angeles Times, Los Angeles (daily).
 *Los Gatos News, Los Gatos, Cal. (weekly).
 *Manufacturers' and Producers', San Francisco (monthly).
 *Machinery Market and Exporter, London (irregular).
 Macmillan's Magazine, New York (monthly).
 McClure's Magazine, New York (monthly).
 *Mekeel's Weekly Stamp News, St. Louis, Mo. (weekly).
 *Mail of Woodland, Cal. (daily).
 Manufacturer and Builder, New York (monthly).
 *Marin County Tocsin, San Rafael, Cal. (weekly).
 Marine Engineer, London (monthly).
 *Marysville Daily Appeal, Marysville, Cal.
 Medical News, Philadelphia (weekly).

*Presented.

Medico-Chirurgical Transactions, London.
 *Mendocino Beacon, Mendocino, Cal. (weekly).
 *Mendocino Dispatch-Democrat, Ukiah (weekly).
 *Merchants' Association Review, San Francisco (monthly).
 Mining and Electrical Review, San Francisco (monthly).
 *Mining and Scientific Press, San Francisco (weekly).
 Mining Journal, London (weekly).
 *Mission Journal, San Francisco (weekly).
 Monist, Chicago (quarterly).
 Modern Art, Boston (quarterly).
 *Modesto Herald, Modesto, Cal. (weekly).
 *Monitor, San Francisco (weekly).
 *Monthly Bulletin of the Bureau of American Republic, Washington, D. C. (monthly).
 Monthly Bulletin, Providence Public Library, Providence (monthly).
 *Monthly Weather Reports, Washington, D. C.
 *Monterey Cypress, Monterey, Cal. (weekly).
 *Monterey New Era, Monterey, Cal. (weekly).
 Morning Call, San Francisco (daily).
 Morning Oregonian, Portland, Or.
 Munsey's Magazine, New York (monthly).
 Music, Chicago (monthly).
 Musical Courier, New York (weekly).
 *Napa Register, Napa, Cal. (weekly).
 Nation, New York (weekly).
 National Car and Locomotive Builder, New York (monthly).
 *Nation, San Francisco (weekly).
 National Single Taxer, Minneapolis (weekly).
 *Natural Food, London (weekly).
 Nature, London (weekly).
 *New Age, San Francisco (monthly).
 *Newcastle News, New Castle, Cal. (weekly).
 New England Historical and Genealogical Register, Boston (quarterly).
 New England Magazine, Boston (monthly).
 New Mexican Review, Santa Fe (weekly).
 New Science Review, New York (quarterly).
 New Time, Chicago (monthly).
 *New World, New York (quarterly).
 New York Herald (daily).
 New York Journal (daily).

*Presented.

Presented.

New York Ledger (weekly).
 New York Sun (weekly).
 New York Times (daily).
 New York Tribune (daily).
 New York Voice (weekly).
 *News, San Pedro, Cal. (weekly).
 News Letter, San Francisco (weekly).
 Nineteenth Century (New York edition) (monthly).
 Nineteenth Century, London (monthly).
 North American Review, New York (monthly).
 Northwestern Lumberman, Chicago (weekly).
 Notes and Queries, London (weekly).
 *Oakland Daily Evening Tribune, Oakland, Cal.
 *Occident, Berkeley, Cal. (weekly).
 *Official Gazette of the Patent Office, Washington, D. C.
 *Official Journal of the Patent Office, London.
 Open Court, Chicago (weekly).
 *Orange County Herald, Santa Ana, Cal. (weekly).
 Orange Judd, Farmer, New York and Chicago (weekly).
 *Oregon State Journal, Eugene, Or. (weekly).
 *Oroville Register, Oroville, Cal. (weekly).
 Outing, New York (monthly).
 Outlook, New York (weekly).
 Overland Monthly, San Francisco.
 *Pacific Calendar and Catholic Church Bulletin, San Francisco (monthly).
 *Pacific Churchman, San Francisco (semi-monthly).
 *Pacific Coast Fancier's Monthly, San Jose, Cal.
 *Pacific Health Journal, Oakland (monthly).
 Pacific Electrician, San Francisco (monthly).
 *Pacific Medical Journal, San Francisco (monthly).
 *Pacific Northwest, Portland (monthly).
 *Pacific Rural Press, San Francisco (weekly).
 *Pacific Tree and Vine, San Jose, Cal. (monthly).
 *Pacific Town Talk, San Francisco (weekly).
 *Pacific Union Printer, San Francisco (monthly).
 Pall Mall Magazine, London (monthly).
 *Paradise of the Pacific, Honolulu (irregular).
 *Paso Robles Leader, Paso Robles, Cal. (weekly).
 *Paso Robles Record, Paso Robles, Cal. (weekly).
 Pathfinder, Washington (weekly).

*Presented.

Presented.

Pathological Society of London, Transactions.
 *Petaluma Daily Courier, Petaluma, Cal.
 *Petaluma Weekly Budget, Petaluma (weekly).
 Peterson's Magazine, Philadelphia (monthly).
 *Penny Press, Santa Cruz, Cal (daily).
 *Philatelic Californian, San Francisco (monthly).
 Phrenological Journal, New York (monthly).
 Picayune, New Orleans (weekly).
 *Pioneer, San Jose, Cal. (monthly).
 *Placer Argus, Auburn, Cal. (weekly).
 *Placer Herald, Auburn, Cal. (weekly).
 *Pleasanton Times, Pleasanton, Cal. (weekly).
 *Plumas National Bulletin, Quincy, Cal. (weekly).
 Political Science Quarterly, New York.
 Popular Science Monthly, New York.
 Popular Science News, Boston (monthly).
 Portfolio, London (monthly).
 Portland Transcript, Portland, Me. (weekly).
 *Porterville Enterprise, Porterville, Cal. (weekly).
 *Post, Orange, Cal. (weekly).
 Power, New York (monthly).
 *Press and Horticulturist, Riverside, Cal. (weekly).
 Public Libraries.
 Public Opinion, Washington, D. C. (weekly).
 *Public Ownership Review, Colorado (monthly).
 Publishers' Weekly, New York.
 Puck, New York (weekly).
 Punch, London (weekly).
 Quarterly Journal of Economics, Boston.
 Quarterly Journal of the Microscopical Science, London.
 Quarterly Review, New York.
 *Queensland Government Gazette, New Zealand (irregular).
 Railroad Gazette, New York (weekly).
 *Reasoner, San Luis Obispo, Cal. (weekly).
 *Record, Larkspur (weekly).
 *Redwood City Democrat, Redwood, Cal. (weekly).
 *Red Bluff News, Red Bluff (weekly).
 *Reflector, Napa, Cal. (weekly).
 *Reno Evening Gazette, Reno, Nev. (daily).
 Republic, St. Louis (weekly).

*Presented.

Republic, Washington (weekly).
 Review of Reviews, (New York edition) (monthly).
 Revista Hispano-Americana, San Francisco (monthly).
 Revue des Deux Mondes, Paris (monthly).
 Rocky Mountain News, Denver, Col. (weekly).
 Royal Agricultural Society, Journal, London.
 Royal Astronomical Society, Memoirs, London.
 Royal Society, Philosophical Transactions, London.
 Royal Society, Proceedings, London.
 Royal United Service Institution, Journal, London.
 Sacramento Daily Record-Union, Sacramento, Cal.
 *St. Helena Star, St. Helena, Cal. (weekly).
 St. Nicholas, New York (monthly).
 *Salinas Weekly Index, Salinas, Cal.
 Salt Lake Tribune, Salt Lake (weekly).
 San Francisco Abend-Post (daily).
 San Francisco Chronicle (daily).
 *San Francisco Chronicle (daily).
 San Francisco Daily Report (daily).
 *San Francisco Daily Report (daily).
 San Francisco Hotel Gazette (weekly).
 *San Francisco Hotel Gazette (weekly).
 *San Francisco Journal of Commerce (weekly).
 *Sanger Herald, Sanger, Cal. (weekly).
 Sanitarian, New York (monthly).
 *San Jose Herald (daily).
 *San Jose Weekly Mercury.
 *San Luis Obispo Tribune, San Luis Obispo, Cal. (weekly).
 *San Miguel Messenger, San Miguel (weekly).
 *Santa Clara Magazine, San Jose (monthly).
 *Santa Cruz Surf, Santa Cruz, Cal. (weekly).
 *Santa Maria Times, Santa Maria, Cal. (weekly).
 *Santa Ynez Argus, Santa Ynez, Cal. (weekly).
 *Sausalito News, Sausalito, Cal. (weekly).
 *Saturday Beacon, Pomona, Cal. (weekly).
 *Saturday Press, Oakland, Cal. (weekly).
 Saturday Review, London (weekly).
 School of Mines Quarterly, New York.
 Science Gossip, London (monthly).
 Scientific American, New York (weekly).

*Presented.

Scientific American Supplement, New York (weekly).
 Scientific American, Builder edition, New York (weekly).
 Scribner's Magazine, New York (monthly).
 Seattle Post-Intelligencer, Seattle (daily).
 *Sebastopol Times, Sebastopol, Cal. (weekly).
 *Semi-Weekly Colonist, Victoria, B. C.
 *Semi-Weekly Colusa Sun, Colusa, Cal.
 *Sequoia, Palo Alto (weekly).
 Shoppell's Modern Houses, New York (quarterly).
 *Shorthand Educator, Brooklyn, N. Y. (monthly).
 Short Stories, New York (monthly).
 *Smithsonian Miscellaneous Collection, Washington, D. C.
 Société Chimique de Paris, Bulletin, Paris (semi-monthly).
 Société Industrielle de Mulhouse, Bulletin, Paris (monthly).
 Society of Chemical Industry, Journal, London (monthly).
 Society of Engineers' Transactions, London.
 *Society of Naval Architects' Transactions, New York.
 *Solano Republican, Suisun, Cal. (weekly).
 *Sonoma County Farmer, Santa Rosa, Cal. (weekly).
 *South California Farmer, San Diego, Cal. (monthly).
 *Specifications of Inventions, London.
 *Specifications and Drawings of Patents, Washington, D. C.
 Spectator, London (weekly).
 Spirit of the Times, New York (weekly).
 Spokesman of the Carriage, Harness and Implement Trades, Cincinnati (monthly).
 Springfield Sunday Republican, Springfield, Mass. (weekly).
 *Star, San Francisco (weekly).
 Statistical Society, Journal, London.
 Stockton Independent, Stockton, Cal. (daily).
 Steamship, London (monthly).
 Street Railway Journal, New York (monthly).
 Sugar Beet (monthly).
 Sunday Press, Albany, N. Y. (weekly).
 Sutter Independent, Yuba, Cal. (weekly).
 *Students' Journal, New York (monthly).
 *Sydney Morning Herald, Sydney.
 *Technical Society of the Pacific Coast, Transactions, San Francisco (monthly).
 *Techniker Der, Philadelphia (monthly).

*Presented.

Terrestrial Magnetism, Chicago (quarterly).
 Theosophical Review, London (monthly).
 Times, Philadelphia (daily).
 Times, London (daily).
 Toronto Globe, Toronto, Canada (weekly).
 Torrey Botanical Club, Bulletin, New York (monthly).
 *Traveller's Record, Hartford (monthly).
 *Traveller, San Francisco (monthly).
 Twentieth Century, New York (weekly).
 Truth, London (weekly).
 *Ukiah Republican Press, Ukiah, Cal. (weekly).
 United Service, Philadelphia (monthly).
 *United States Consular Reports, Washington, D. C.
 *United States Government Publications, Monthly Catalogue, Washington, D. C.
 Universal Truth, Chicago (monthly).
 University California Magazine, Berkeley (monthly).
 United States Naval Institute, Proceedings, Annapolis (quarterly).
 *Ventura Independent, Ventura, Cal. (weekly).
 Virginia City Chronicle, Virginia, Nev. (daily).
 Vogue, New York (weekly).
 *Voice of Labor, San Francisco (weekly).
 Washington Post, Washington, D. C. (daily).
 Wasp, San Francisco (weekly).
 *Wasp, San Francisco (weekly).
 Wave, San Francisco (weekly).
 *Weekly Antioch Ledger, Antioch, Cal.
 Weekly Commercial Gazette, Pittsburg.
 *Weekly Colusa Sun, Colusa, Cal.
 *Weekly Galt Gazette, Galt, Cal.
 Weekly Globe Democrat, St. Louis.
 *Weekly Independent Elko, Nev.
 *Weekly Palo Alto, Mayfield, Cal.
 *Weekly People's Cause, Red Bluff, Cal.
 Weekly Register, Mobile, Ala.
 Weekly Scotsman, Edinburgh.
 Weekly Tulare Register, Tulare.
 *Weekly Visalia Delta, Visalia, Cal.
 Western Journal of Education, San Francisco (monthly).
 *Western Sports, San Francisco, Cal. (weekly).

*Presented.

Westminster Review, (New York ed.) (monthly).
 *Westside Index, Newman, Cal. (weekly).
 Wilson's Photographic Magazine, New York (monthly).
 *Winters Express, Winters, Cal. (weekly).
 *Wood and Iron, San Francisco (monthly).
 *Woman's World and Jenness-Miller Magazine, New York (monthly.)
 Yale Review, Boston (quarterly).
 Youth's Companion, Boston (weekly).
 *Yreka Journal, Yreka, Cal. (weekly).
 Yuma Sun, Yuma, A. T. (weekly).
 Zeitschrift Fur Das Berg-Hutten-und Saliënenwesen in Preussichen
 Staate, Berlin (quarterly).

*Presented.

ANNUAL MEETING.

The annual meeting of the Mechanics' Institute was held in the rooms of the Institute, Saturday evening, March 5th, 1898.

The meeting was called to order by President Denicke, and after reading the minutes of the last meeting, the annual reports of the President, Secretary and Librarian, and the transaction of other business, the following report from the Judges of Election was received and ordered spread on the minutes.

San Francisco, Cal., March 5th, 1898.

We, the undersigned, hereby certify that at the annual election of the members of the Mechanics' Institute, held on Wednesday, February 23d, 1898, the following members were duly elected Trustees for the ensuing two years: George H. Wallis, P. J. Healy, E. P. Heald, J. H. Culver, George R. Presson, Charles D. Steiger, and H. L. Tickner.

HENRY L. DAVIS,
 C. A. MALM,
 ALFRED CRIDGE,
 Judges of Election.

The Chair announced that Messrs. A. S. Hallidie, Asa R. Wells and A. Van der Naillen, Sr., had been elected as the Committee for the Installation of the Trustees elect. The Installation Committee administered the oath of office to Trustees-elect George H. Wallis, P. J. Healy, E. P. Heald, J. H. Culver, George R. Presson, Chas. D. Steiger and H. L. Tickner, which they all took and subscribed to in accord-

ance with the Constitution, whereon they were declared duly installed Trustees of the Mechanics' Institute.

ORGANIZATION OF THE BOARD OF TRUSTEES.

Immediately on adjournment of the annual meeting, the Trustees met and elected the following officers:

President, Ernst A. Denicke; Vice-President, Rodney Kendrick; Recording Secretary, E. P. Heald; Corresponding Secretary, H. L. Tickner; Treasurer, First National Bank.

MECHANICS' INSTITUTE

SAN FRANCISCO, CAL.

DRAWING CLASSES 1898-1899

ORDER OF CLASSES

DRAWING FROM THE FLAT AND CASTS

PERSPECTIVE AND ORNAMENTAL DRAWING

MONDAYS AND WEDNESDAYS

L. P. LATIMER, INSTRUCTOR

MACHINE DRAWING AND DESCRIPTIVE GEOMETRY

TUESDAYS AND THURSDAYS

G. A. BEHRND, INSTRUCTOR

CLASS HOURS, 7:30 P. M. TO 9:30 P. M., AT THE
LIBRARY BUILDING, 31 POST ST.

A copy of the rules, conditions of entrance, and all information can be obtained from the Librarian, 31 Post street.

Committee on Lectures
and Classes { J. H. CULVER
E. P. HEALD
H. L. TICKNER